FAIRCHILD HILLER



FH-227B TWSS

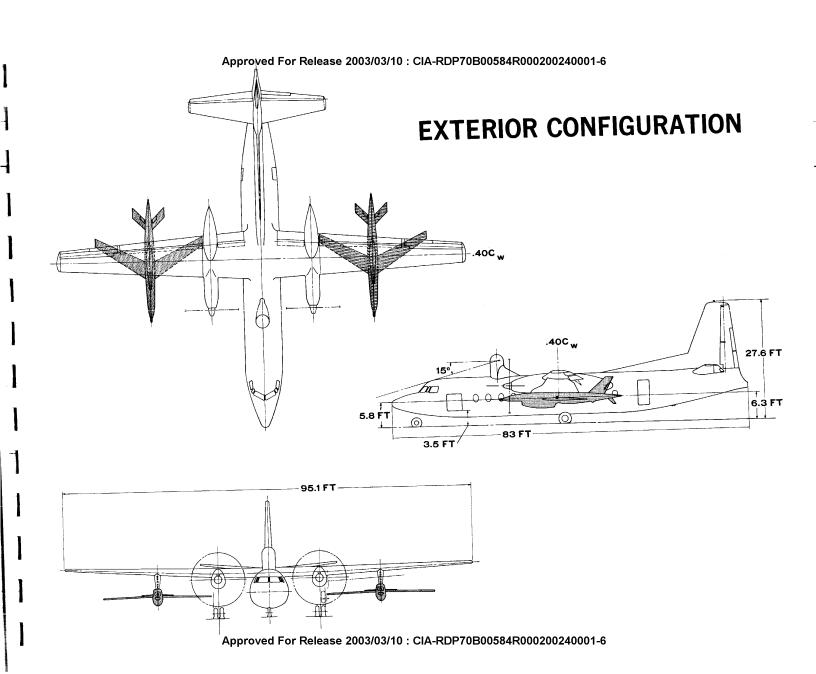
tactical weapon support system

On file USAF release instructions apply.

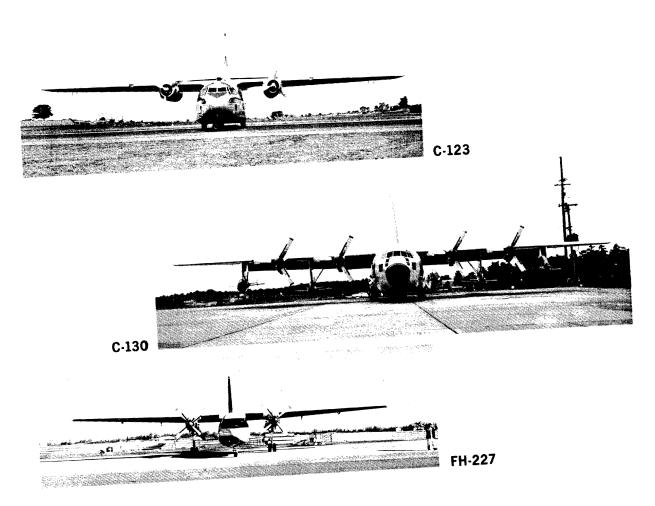
'OFF THE SHELF' AIRCRAFT

- MINOR STRUCTURAL MODIFICATION
- MILITARY NAVIGATION/COMMUNICATION EQUIPMENT
- MCGS
- OPERATORS CONSOLES
- EXTERNAL STORES
- 12 MONTHS

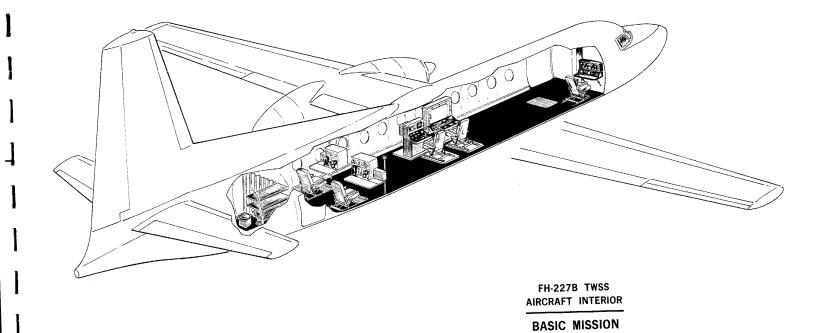
6 TWSS CONFIGURED FH-227B'S

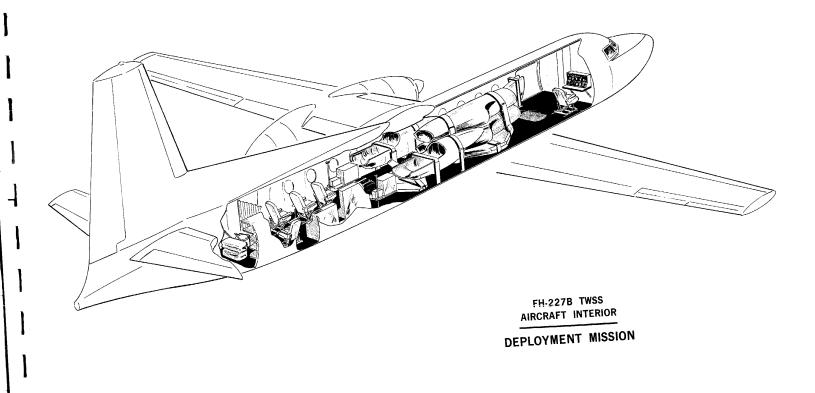


C-130 / C-123 / FH-227 COMPARISON

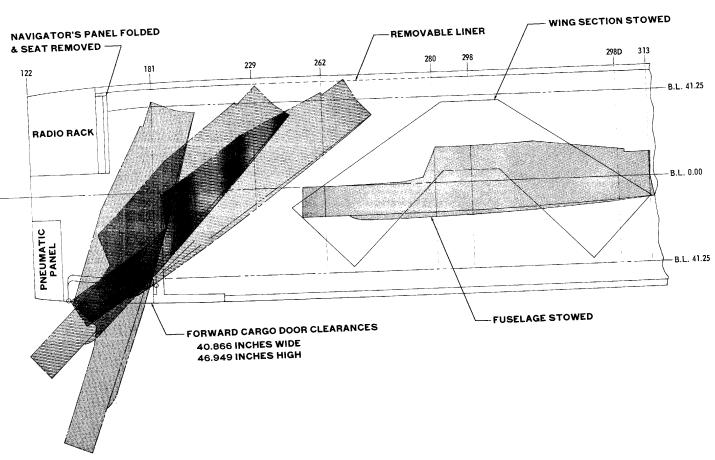


Approved For Release 2003/03/10 : CIA-RDP70B00584R000200240001-6

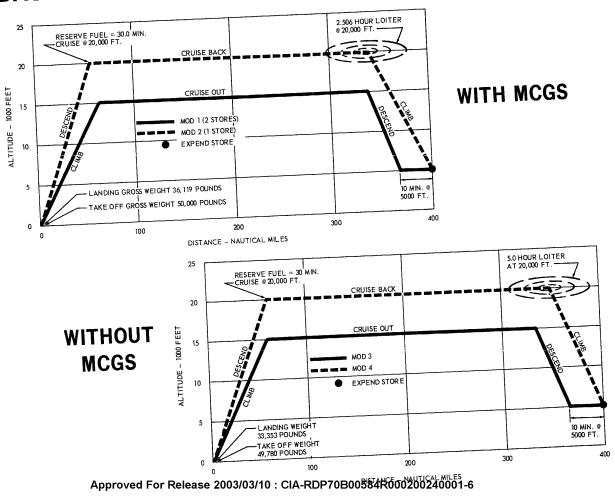




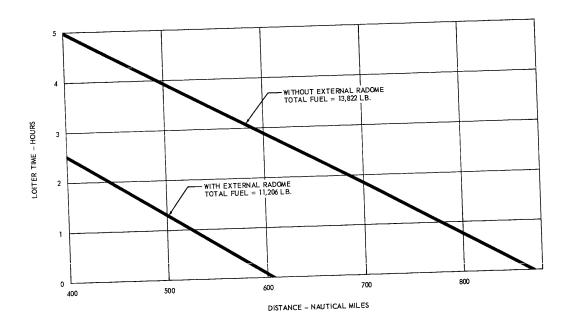
EXTERNAL STORE LOADING CLEARANCES DEPLOYMENT MISSION

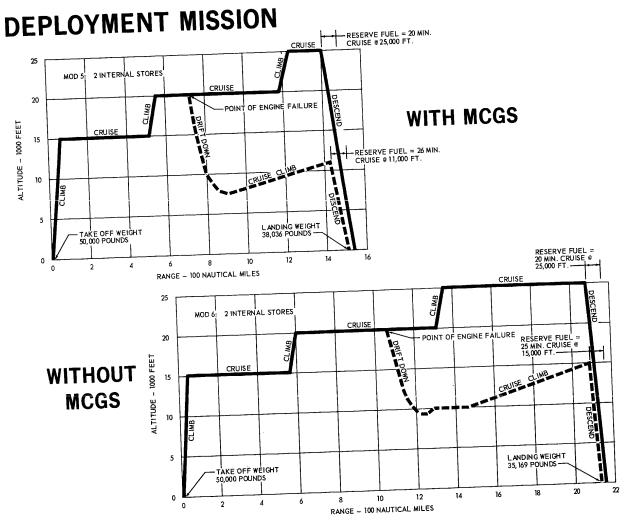


BASIC MISSION PROFILE



MISSION RADIUS VS LOITER TIME

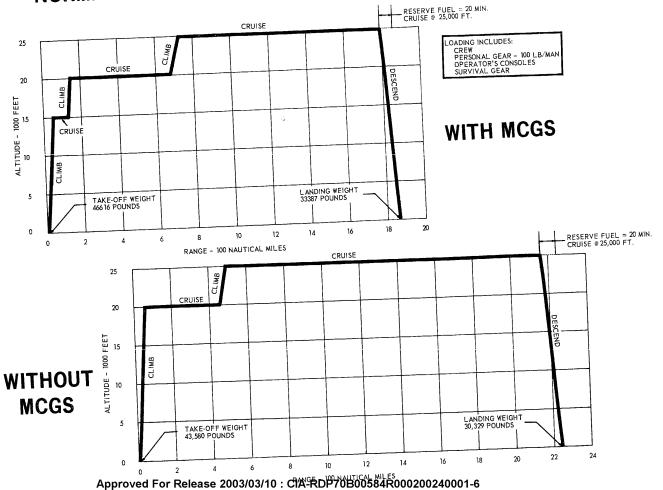




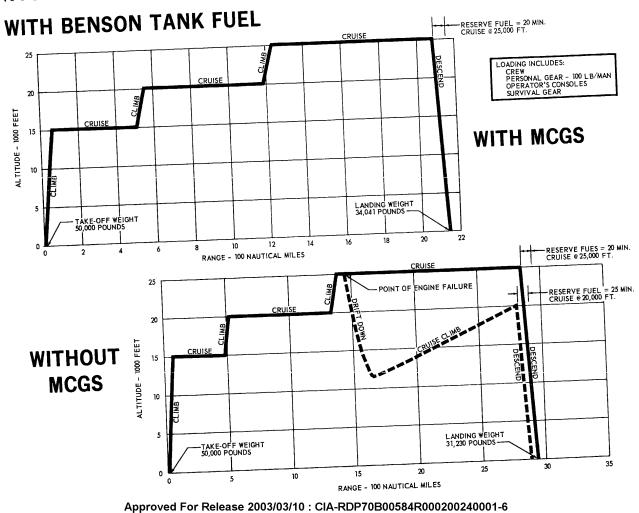
Approved For Release 2003/03/10: CIA-RDP70B00584R000200240001-6

Approved For Release 2003/03/10 : CIA-RDP70B00584R000200240001-6 DEPLOYMENT MISSION NO STORES (INTERNAL OR EXTERNAL)

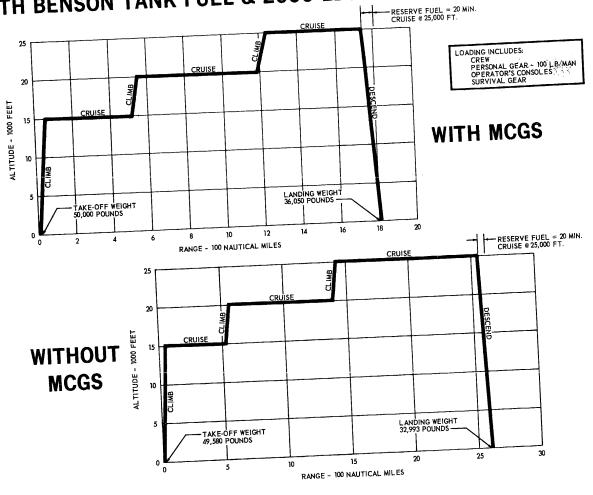
NORMAL FUEL CAPACITY



DEPLOYMENT MISSION (NO STORES INTERNAL OR EXTERNAL)

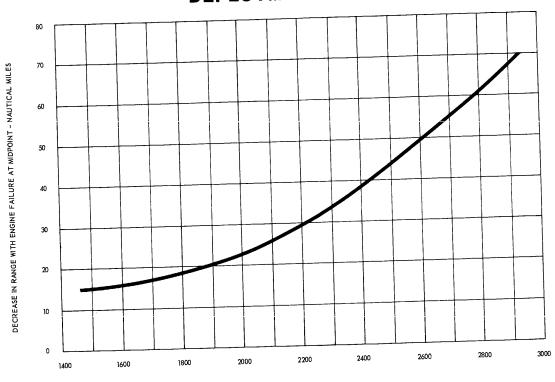


DEPLOYMENT MISSION 3/03/10: CIA-RDP70B00584R000200240001-6 (NO STORES INTERNAL OR EXTERNAL) WITH BENSON TANK FUEL & 2000 LBS CARGO



DECREASE IN RANGE WITH LOSS OF ENGINE AT MIDPOINT VERSUS TWO-ENGINE RANGE

DEPLOYMENT MISSION



TWO-ENGINE RANGE - NAUTICAL MILES

PERFORMANCE

-111				
TAVE OFF	WITH MCGS		WITHOUT MCGS	
TAKE-OFF FLAP SETTING MAX TAKE OFF WEIGHT - LB GROUND ROLL - FT TOTAL OVER 50 FT - FT	0 *50,000 3670 5910	16.5° *47,150 2270 3710	0 50,000 3510 5690	16.5° 50,000 2570 4180
RATE-OF-CLIMB - FT/MIN 2 ENGINES, T.O. POWER - S.L. 1 ENGINE, T.O. POWER - S.L.	1260 100	1330 100	1365 188	1290 110
SERVICE CEILING - FT 2 ENGINES, CRUISE, $S_F = 0$	18,400	20,000	20,600	20,600
LANDING				000
FLAP SETTING LANDING WEIGHT - LB TOTAL DISTANCE FROM 50 FT - FT	36,000	45,000 2310	33,500	0° 45,000 2310

^{*} LIMITED BY 100 FT/MIN RATE-OF-CLIMB

MAXIMUM GROSS WEIGHT

DESIGN TAKE-OFF WEIGHT

45,500 LBS

MAXIMUM TAKE-OFF WEIGHT

50,000 LBS

RESTRICTIONS

TAXI TURNS - MAX SIDE FORCE ON AIRCRAFT CG=0.45g

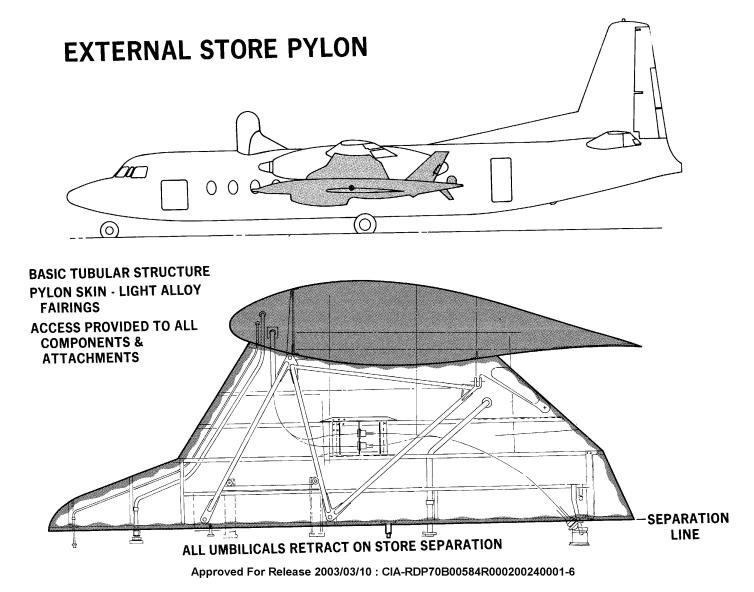
TAXI BRAKING LIMITED TO DECELERATION RATE = 23.5 FT/SEC²

TAXI SPEED LIMITED TO 10 KNOTS MAXIMUM

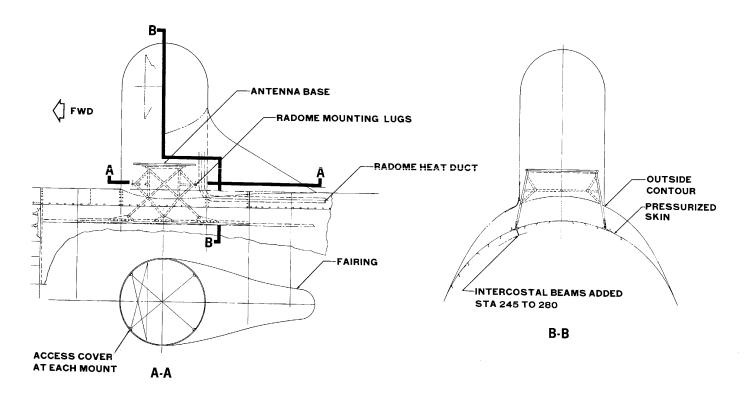
RATE-OF-SINK REDUCED TO 6 FT/SEC

WEIGHT SUMMARY

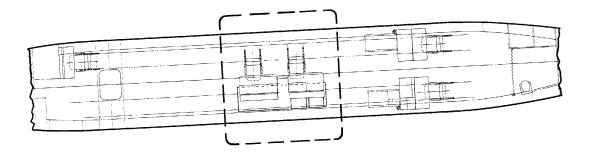
			DEPLOYMENT	DEPLOYMENT
	BASIC MISSION	BASIC MISSION	MISSION	MISSION
	WITH MCGS	WITHOUT MCGS	WITH MCGS	WITHOUT MCGS
	(POUNDS)	(POUNDS)	(POUNDS)	(POUNDS)
MANUFACTURER'S WEIGHT EMPTY	22,986	22,986	22,986	22,986
STRUCTURAL CHANGES	1,779	1,556	1,779	1,556
INTERIOR	783	783	783	783
ELECTRONICS - CONVENTIONAL	1,444	1,444	1,444	1,444
EXTERNAL PAINT	55	55	55	55
REVISED WEIGHT EMPTY	27,047	26,769	27,047	26,769
CREW & MISSION EQUIPMENT	11,597	9,039	10,397	7,839
BASIC OPERATING WEIGHT	38,644	35,808	37,444	34,608
FUEL & WATER/METHANOL	11,356	13,972	12,556	15,392
TAKE-OFF GROSS WEIGHT	50,000	49,780	50,000	50,000

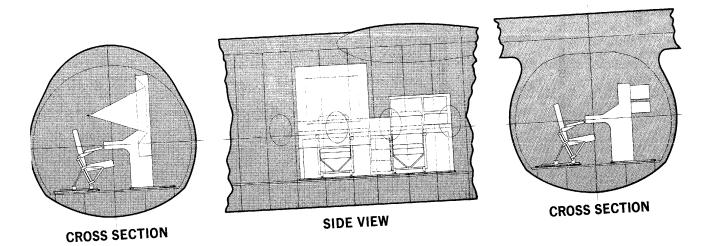


MCGS RADOME INSTALLATION

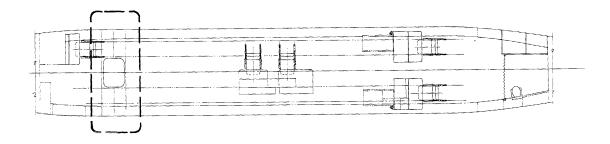


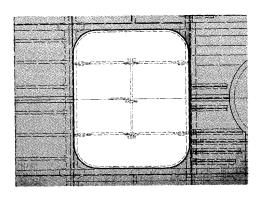
MCGS STATIONS



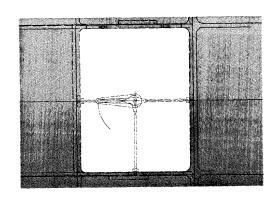


ESCAPE HATCH INSTALLATION



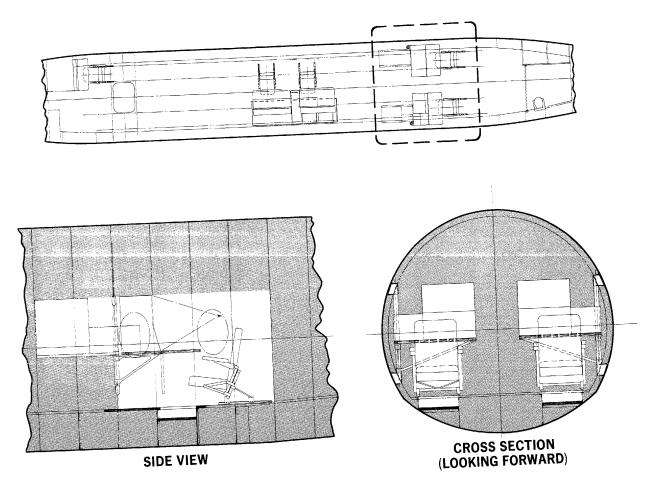


BOTTOM VIEW

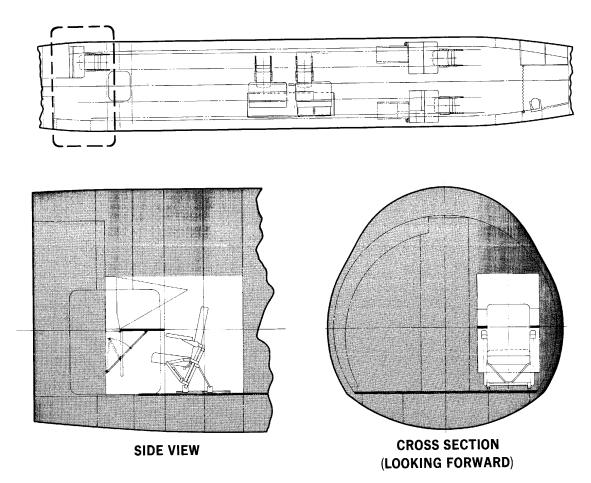


TOP VIEW

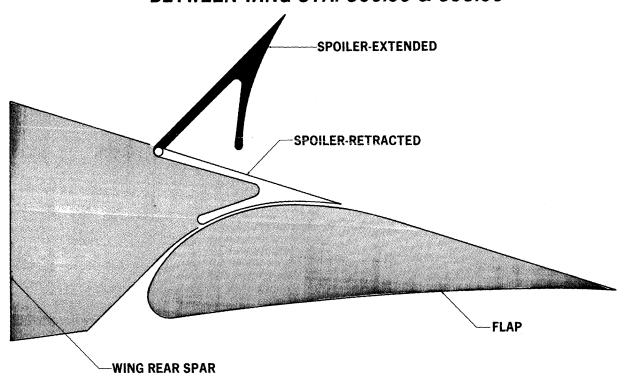
OPERATORS' CONSOLES

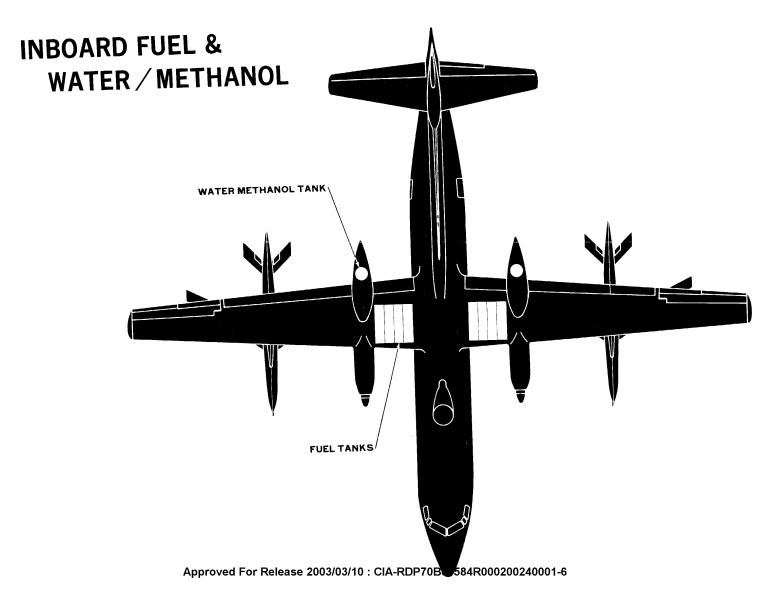


NAVIGATOR'S STATION



SPOILER SECTION BETWEEN WING STA. 300.00 & 393.00





COMMUNICATION/NAVIGATION EQUIPMENT

* AIC-18	INTERCREW COMMUNICATION	* ARN 67	GLIDE PATH RECEIVER FOR ILS
* ARC 102	HF VOICE AND DATA TRANSMITTER/RECEIVER (TWO)	* APN 70	LORAN NAVIGATION AID (LORAN A AND C)
* ARC 101	VHF VOICE COMMUNICATIONS	* APN 147V	DOPPLER NAVIGATION
* ARC 54	VHF FM VOICE COMMUNICATIONS	* ASN 35	DOPPLER COMPUTER
* ARC 34C	UHF VOICE COMMUNICATIONS	* N-1	GYRO-MAGNETIC COMPASS SYSTEM
* ARN 6	RADIO COMPASS FOR HOMING, BEARING AND RANGE FINDING	* MA-1 * 51Z3	FLIGHT DIRECTOR SYSTEM MARKER BEACON FOR ILS
* ARN 14C	VHF NAVIGATION RADIO AID	●PB 60	AUTOMATIC PILOT SYSTEM
* ARN 21	UHF NAVIGATION AID	• RDR1E	WEATHER RADAR
* ARA 25	UHF DIRECTION FINDER		
* APX 25	IFF AIRCRAFT RECOGNITION		

 PB60 Autopilot is on the T-39, C-141 and Caribou aircraft. RDR-1 Radar is on the C-140. Both systems

have been installed on the FH-227.

* Government furnished equipment.

* Government furnished equipment

common to C-130E.

SYSTEMS / EQUIPMENT

FUEL TOP-OFF SYSTEM (C-130 SYSTEM COMPONENTS)

MCGS RADOME ANTI-ICING

OXYGEN SYSTEM

PITOT STATIC SYSTEM

INTERIOR

FUEL DUMP & NITROGEN PURGE SYSTEM (OPTIONAL)

FLIGHT TEST PROGRAM

CONFIRM CONCEPT FEASIBILITY

PRELIMINARY TESTS

FLIGHT HANDLING QUALITIES

ASYMMETRICAL DROP TESTS

PERFORMANCE

SYSTEMS

MISSION FLEXIBILITY

• UPRATED ENGINES

20% INCREASE IN WET TAKE -OFF POWER

10% INCREASE IN MAXIMUM CONTINUOUS POWER

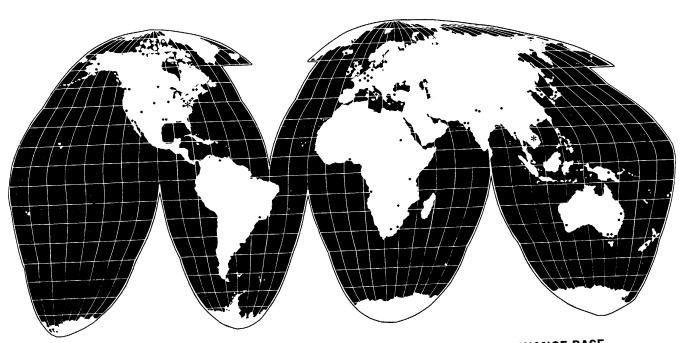
- SHORTER SPAN / HIGHER WEIGHT STORES
- QUICK-CHANGE INTERIOR
- LARGE FORWARD CARGO DOOR

HEIGHT: 70 INCHES

WIDTH: 91 INCHES

WORLD-WIDE MAINTENANCE & SUPPORT

400 AIRCRAFT IN SERVICE AND ON ORDER



- * FAIRCHILD HILLER MAINTENANCE BASE
- AIRCRAFT MAINTENANCE BASE
- ♦ DART MAINTENANCE BASE

GOVERNMENT FURNISHED EQUIPMENT

VHF NAV

TACAN

UHF DF

LORAN

GLIDE SLOPE

DOPP COMP

IFF

AN/APN-147V DOPP NAV

AN/ARN-14C

AN/ARN-21

AN/ARA-25 AN/APX-25

AN/ARN-67

AN/APN-70

AN/ASN-35

ELECTRONICS		N-1	COMPASS
AN/AIC-18	INTERPHONE	MA-1	FLIGHT DIR
AN/ARC-102	HF COMM (2)	51Z3	MARKER
	VHF COMM	MISSION SUP	PORT EQUIPMENT
AN/ARC-101		S-4	BOMB RACK (2)
AN/ARC-54	VHF FM COMM	• .	CHECK-OUT CONSOLE (2)
AN/ARC-34C	UHF COMM	AN/APW-23	MCGS (As modified for use
AN/ARN-6	RADIO COMPASS	AN/ APW-23	on the FH-227 airplane)

SURVIVAL GEAR

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AN/MA8	PYRO PISTOL
A-3B	LIFE RAFTS (2)
CRT-3	EMERG RADIO
	EMERG RATIONS (64)
	ABANDONSHIP KIT
	LIFE JACKETS (8)

PRODUCTION & DELIVERY SCHEDULE

MONTHS AFTER GO-AHEAD 2 3 6 7 8 9 10 11 12 **ENGINEERING** իստումաստիստումաստիս **PROCUREMENT** waaningaaningaaningaa **TOOLING** <u> խոստակաստակաստակաստակաստակաս</u> **RECEIPT OF GFE MANUFACTURING** majamanjama **FEASIBILITY TESTS** madaman **TRAINING** hanana)am **MODIFICATION** իստումաստվաստիստումասավա **DELIVERY**

PROGRAM COSTS

TOTAL PROGRAM COST	\$12,280,862
SPARES SUPPORT (1 YEAR)	\$ 756,355
NON-RECURRING MOD COSTS	\$1,874,130
RECURRING MOD COSTS @ \$313,396	\$1,880,377
6 FH-227'S @ \$1,295,000	\$7,770,000